

SuperServer 1027R-73DARF



Integrated Board



Super X9DRD-7LN4F

Available Colors:

Black



Key Features

1. Intel® Xeon® processor E5-2600 family; QPI up to 8GT/s
2. Up to 512GB DDR3 1600MHz ECC Registered DIMM; 16x DIMM sockets
3. Expansion slot: 1 (x8) PCI-E 3.0
4. I/O Support: Intel® i350 GbE LAN (4x ports), 9x USB 2.0 ports (4x rear, 4x via headers, 1x Type A)
5. 8x Hot-swap 2.5" SAS/SATA HDD bays; SAS2 support via LSI 2308
6. 700W Redundant Power Supplies Gold Level Certified

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-1027R-73DARF	■ SuperServer 1027R-73DARF (Black)
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Motherboard

Super X9DRD-7LN4F

Processor/Cache

CPU	<ul style="list-style-type: none"> ■ Dual Socket R (LGA 2011) ■ Supports up to two Intel® Xeon® 64-bit processor(s) of the same type below: Intel® Xeon® processor E5-2600 60W - 135W
Cache	■ Up to 20MB
System Bus	■ QPI up to 8 GT/s

System Memory

Memory Capacity	<ul style="list-style-type: none"> ■ 16x 240-pin DDR3 DIMM sockets ■ Supports up to 512 GB DDR3 ECC Registered memory (RDIMM) ■ Supports up to 128 GB DDR3 ECC Un-
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Chassis

Form Factor	■ 1U Rackmount
Model	■ <u>CSE-113TQ-R700CB</u>

Dimensions

Width	■ 17.2" (437mm)
Height	■ 1.7" (43mm)
Depth	■ 23.5" (597mm)
Gross Weight	■ 39 lbs (17.7kg)
Available Colors	■ Black

Front Panel

Buttons	<ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button ■ UID button
LEDs	<ul style="list-style-type: none"> ■ Power status LED ■ HDD activity LED ■ 2x Network activity LEDs ■ Universal Information (UID) LED

	Buffered memory (UDIMM)
Memory Type	<ul style="list-style-type: none"> 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C602J chipset
SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1, 5, 10
SAS	<ul style="list-style-type: none"> SAS2 (6Gbps) via LSI 2308 SW RAID 0, 1, 10 support
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Renesas SH7757 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Quad Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8211E PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Matrox G200eW

Input / Output	
Serial ATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
SAS	<ul style="list-style-type: none"> 8x SAS ports
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port / 1 Header

Expansion Slots	
	<ul style="list-style-type: none"> 1 (x8) PCI-E 3.0 slot
PCI-Express	(Both CPUs need to be installed for full access to PCI-E slots. See manual for details.)

Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 8x Hot-swap 2.5" SAS / SATA HDD trays

Backplane	
SAS / SATA HDD Backplane	

System Cooling	
Fans	<ul style="list-style-type: none"> 6x 40x56mm Counter-rotating PWM fans

Power Supply	
700W/750W Redundant AC-DC high-efficiency power supply with PMBus and I2C	
AC Voltage	<ul style="list-style-type: none"> 700W: 100 - 140 V, 50-60 Hz, 8.5-6 Amp 750W: 180 - 240V, 60-50 Hz, 5-3.8 Amp
DC Output +5V standby	<ul style="list-style-type: none"> 3 Amp
DC Output +12V	<ul style="list-style-type: none"> 700W: 58 Amp @ 100-140V 750W: 62 Amp @ 180-240V
With Power Distributor	<ul style="list-style-type: none"> +5V: 25 Amp +3.3V: 12 Amp -12V: 0.6 Amp

Certification	 Gold Certified
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System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 PCI 2.2 ACPI 1.0 / 2.0 / 3.0 / 4.0 BIOS resuce hot keys USB Keyboard support SMBIOS 2.3 UEFI

Operating Environment / Compliance	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DRD-7LN4F	1	Super X9DRD-7LN4F Motherboard
	CSE-113TQ-R700CB	1	1U Chassis
Air Shroud	MCP-310-19010-0N	1	SC815/SC113/SC116, DP X9DRD-7LN4F, X9 Malar Air Shroud, 12" x 13" MB
Backplane	BPN-SAS-113TQ-O-P	1	BPN-SAS-113TQ-O-P
Cable 1	CBL-0097L-03	1	lpass to 4 SATA, 50 cm, W/50cm SB, S, 30AWG
Cable 2	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 3	CBL-0476L	1	IPASS to 4 SATA, 55,45,35,30, w/55 SB, 30AWG
Part(s)	MCP-260-00041-0N	1	1U I/O shield for X9 socket R server MB with Gasket
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4
Heatsink / Retention	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Fan	FAN-0086L4	2	40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M
Fan (come w/ chassis)	FAN-0086L4	4	40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M